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DATE MAILED: 10/04/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/783,244	02/20/2004	Young-Seok Kim	5000-1-453	1405
33942	7590 10/04/2005		EXAMINER	
CHA & REITER, LLC			LEPISTO, RYAN A	
210 ROUTE 4 EAST STE 103 PARAMUS, NJ 07652			ART UNIT	PAPER NUMBER
TAICAIVIOS, I	13 07032		2883	

Please find below and/or attached an Office communication concerning this application or proceeding.

•			AK
·	Application No.	Applicant(s)	
	10/783,244	KIM ET AL.	
Office Action Summary	Examiner	Art Unit	
	Ryan Lepisto	2883	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	e correspondence address	;
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be ly within the statutory minimum of thirty (30) of will apply and will expire SIX (6) MONTHS fr e, cause the application to become ABANDO	timely filed days will be considered timely. om the mailing date of this communi NED (35 U.S.C. § 133).	ication.
Status			
1)⊠ Responsive to communication(s) filed on 20 F	February 2004.		
	s action is non-final.		
3) Since this application is in condition for allowa		prosecution as to the men	its is
closed in accordance with the practice under	,		
Disposition of Claims			
<ul> <li>4)  Claim(s) 1-12 is/are pending in the application 4a) Of the above claim(s) is/are withdra</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1,2,4-7 and 9-12 is/are rejected.</li> <li>7)  Claim(s) 3 and 8 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul>	wn from consideration.		·
Application Papers			
9) The specification is objected to by the Examine	er.		
10)⊠ The drawing(s) filed on 20 February 2004 is/ar	re: a)⊠ accepted or b)□ objec	ted to by the Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).	•
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	• • • • • • • • • • • • • • • • • • • •	· ·	• •
Priority under 35 U.S.C. § 119	•		
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in Applic prity documents have been rece nu (PCT Rule 17.2(a)).	ation No ived in this National Stage	e
Attachment(s)			
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ol>	4) Interview Summa Paper No(s)/Mail  5) Notice of Informa  6) Other:		
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Art Unit: 2883

### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 1, 4-6 and 9-12 rejected under 35 U.S.C. 102(b) as being anticipated by Chien et al (US 6,316,516 B1) (Chien). Chien teaches a double-coated optical fiber (Fig. 1, 10) (overall thickness of 245 μm, column 13 line 59) comprising a core (12) for transmitting light, a cladding (14) (core and cladding thickness of 125 μm, column 13 line 42) surrounding the core (12) and having a smaller reflective index than the core, a primary coating layer (16) formed of a UV-cured polymer around the cladding (column 11 lines 12-15), a secondary coating (18) formed of a UV-cured polymer around the primary coating (16) (column 11 lines 12-15) with a greater modulus of elasticity than primary coating layer (column 1 lines 48-52) and with a thickness of 27.5 μm (column 13 line 45) and wherein the fiber (10) displays a strip force ranging within 1.0 to 1.63 N (Table 3).

Chien further teaches that the fiber can be manufactured by either arranging both primary and secondary coatings on the drawn glass fiber and then curing or by applying the primary coating, curing the primary coating, applying the secondary coating and then curing the secondary coating (column 10 line 63 through column 11 line 33).

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 2 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chien as applied to claims 1, 4-6 and 9-12 above, and further in view of what would have been obvious to one of ordinary skill in the art at the time of the invention.

Chien teaches the double-coated fiber described above.

Chien does not teach expressly a primary coating layer 180 to 210  $\mu$ m thick. Chien teaches a primary coating of 157.5  $\mu$ m (125  $\mu$ m + 32.5  $\mu$ m, column 13 lines 41-45).

At the time the invention was made, it would obvious to a person of ordinary skill in the art to adjust the primary coating thickness as needed. Applicant has not disclosed that this exact range provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with a 157.5  $\mu$ m because the strip forces are in the same range as are the glass fiber and secondary thicknesses and the fiber is produced in an identical process.

The motivation would have been to reduce cost by using a bit less primary coating material.

## Allowable Subject Matter

3. Claims 3 and 8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: These claims would be allowable over the prior art of record if rewritten in independent form including all of the limitations of the base claim and any intervening claims because the latter, either alone or in combination, does not disclose nor render obvious a secondary coating layer having a dynamic stress corrosion parameter ranging from about 20 to 29, in combination with the rest of the claimed limitations.

#### **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan Lepisto whose telephone number is (571) 272-1946. The examiner can normally be reached on M-F 7:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ryan Lepisto

Frank Font

Art Unit 2883

Supervisory Patent Examiner

Frank & Fort

Date: 8/22/05

Technology Center 2800